

Perspectives and Experiences on

Minnesota's Watershed Approach

















Minnesota Water Management Framework

Who: Seven state agencies

What: Enhance collaboration and

clarify roles

When: Now

Where: Across the state

How: Systematically and predictably

deliver data, research, and

analysis; empower local action

Amazing new products from

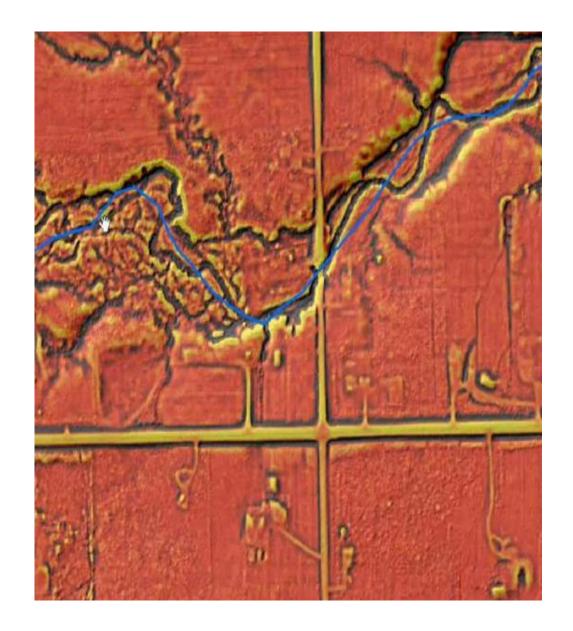
Minnesota's Lake Superior Coastal Program:

Updated Stream Hydrology

Current Stream Data Overlay

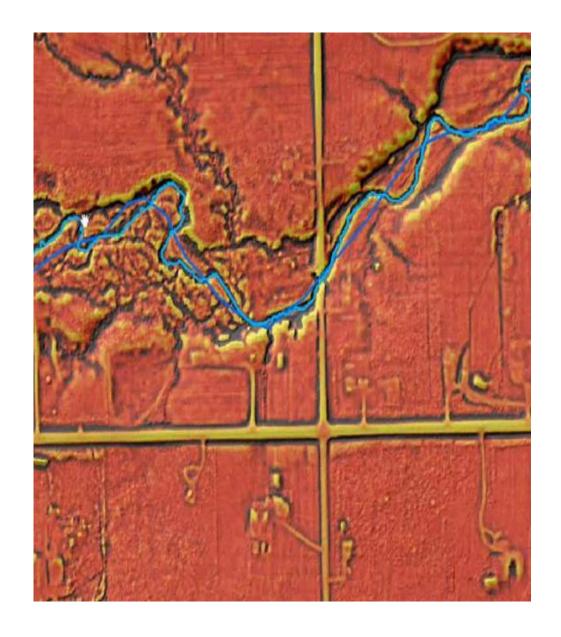
Existing streams were hand digitized from USGS 1:24,000 topographic maps.

Stream lines rarely match current imagery and LiDAR derived data.



LiDAR Derived Stream Lines compared to 24k streams

Finished product



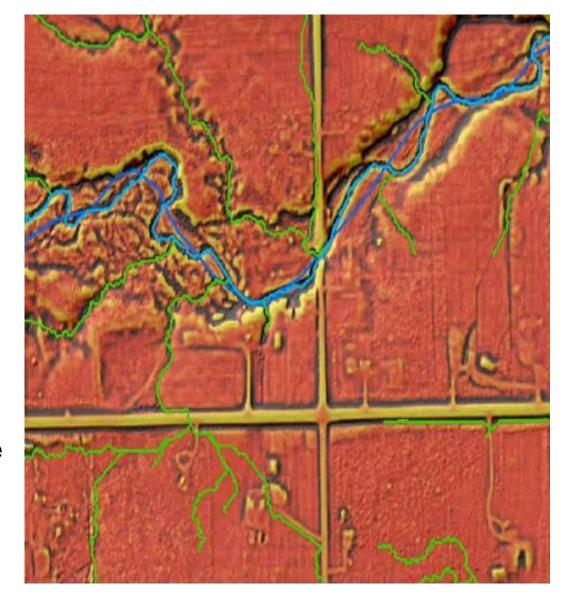
It's not easy...

Leveraged existing culvert inventories

Initial data provides a lot of detail

A lot of trial and error

A lot of meetings with the MN DNR Water Resources Team.

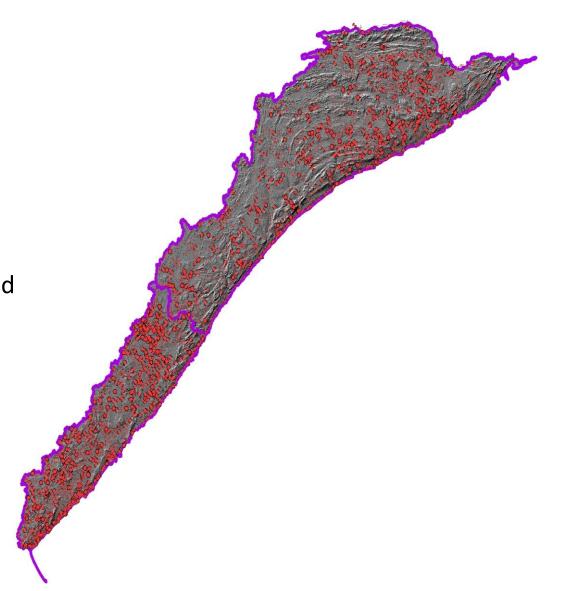


With Ariel Photography



13,142 Digital Dam Breach Lines

Created from existing culvert inventory and hand digitized using air photos and LiDAR derived data



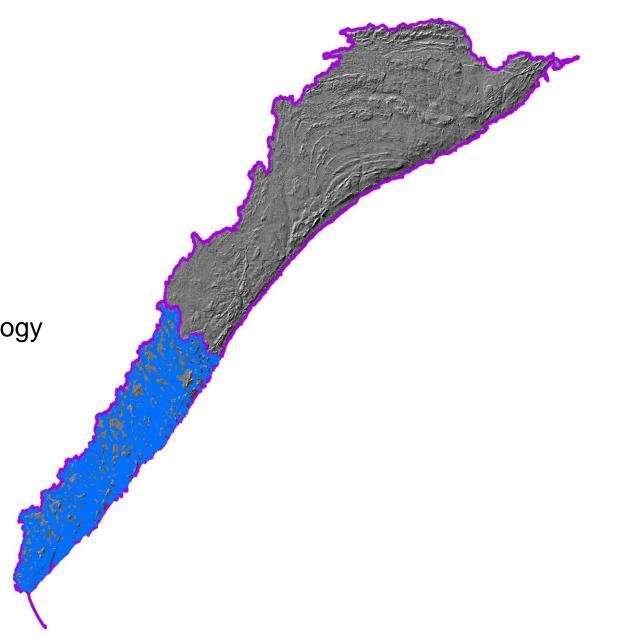
Progress

Area shown has completed QA/QC

Products

 MN DNR next generation hydrology layer

- Flow path
- Breach Lines



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